

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference P27908WO MkÖ	FOR FURTHER ACTION <small>see Form PCT/ISA/220 as well as, where applicable, item 5 below.</small>	
International application No. PCT/EP2004/001923	International filing date (day/month/year) 26/02/2004	(Earliest) Priority Date (day/month/year) 26/03/2003
Applicant SONY ERICSSON MOBILE COMMUNICATIONS AB		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box II).

3. ☐ **Unity of invention is lacking** (see Box III).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regards to the **drawings**,

a. the figure of the **drawings** to be published with the abstract is Figure No. 1

☒ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

b. ☐ none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/001923

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04M1/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 2003, no. 04, 2 April 2003 (2003-04-02) & JP 2002 369252 A (SONY CORP), 20 December 2002 (2002-12-20) abstract	1,2
Y		3,4
X	GB 2 322 504 A (MOTOROLA INC) 26 August 1998 (1998-08-26) abstract page 3, line 3 - page 5, line 7 figures 1,3,4 ----- -/--	1,2

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

G document member of the same patent family

Date of the actual completion of the international search

30 June 2004

Date of mailing of the international search report

06/07/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Golzio, D

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/001923

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	EP 1 178 647 A (MATSUSHITA ELECTRIC IND CO LTD) 6 February 2002 (2002-02-06) abstract column 6, lines 48-55 figure 4	3,4
A	----- US 5 996 178 A (MURRAY MICHAEL PATRICK) 7 December 1999 (1999-12-07) abstract column 2, lines 19-52 figures 1,2	1-4
A	----- US 4 825 395 A (KINSER JR RALPH W ET AL) 25 April 1989 (1989-04-25) abstract figures 2C,2D	1
A	----- US 6 154 359 A (KAMIKAKAI HIDEAKI ET AL) 28 November 2000 (2000-11-28) abstract figures 5-7	1
A	----- GB 2 355 043 A (NOKIA MOBILE PHONES LTD) 11 April 2001 (2001-04-11) abstract figures 1,2 -----	3,4

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/001923

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP 2002369252	A	20-12-2002	NONE	
GB 2322504	A	26-08-1998	BR 9800350 A FR 2758671 A1 JP 10215304 A	15-06-1999 24-07-1998 11-08-1998
EP 1178647	A	06-02-2002	JP 2002051131 A JP 2002051132 A CN 1337813 A EP 1178647 A2 US 2002042252 A1	15-02-2002 15-02-2002 27-02-2002 06-02-2002 11-04-2002
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GB 2355043	A	11-04-2001	NONE	